

REMARKS

Applicants appreciate the Examiner's thorough consideration provided the present application. Claims 1-3, 5-10, 12-17 and 20-33 are now present in the application. Claims 1, 7, 12, 20 and 27 have been amended. Claims 1, 7, 12, 20 and 27 are independent. Reconsideration of this application, as amended, is respectfully requested.

Claim Rejections Under 35 U.S.C. § 103

Claims 1-3, 5, 6, 12-17, 19, 20, 22-27 and 29-33 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Mao et al., U.S. Patent Application Publication No. US 2003/0115612 (hereinafter "Mao"), in view of Kaplan, U.S. Patent No. 6,058,430 (hereinafter "Kaplan"). Claims 7-10 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Mao in view of Shoff, U.S. Patent No. 6,240,555 (hereinafter "Shoff"). Claims 21 and 28 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Mao in view of Kaplan, and further in view of Shoff. These rejections are respectfully traversed.

Complete discussions of the Examiner's rejections are set forth in the Office Action, and are not being repeated here.

In light of the foregoing amendments, Applicants respectfully submit that these rejections have been obviated and/or rendered moot. While not conceding to the Examiner's rejections, but merely to expedite prosecution, as the Examiner will note, independent claims 1, 7, 12, 20 and 27 have been amended.

Independent claims 1, 7 and 12 have been amended to recite “forming an integrated information of a channel/program identifier information and data contents in connection with each other, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID.”

Independent claim 20 has been amended to recite “displaying A/V signals and corresponding data contents of the selected channel based on an integrated information of a channel/program identifier information and the data contents in connection with one another, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID.”

Independent claim 27 has been amended to recite “a display unit for displaying A/V signals and corresponding data contents of the selected channel based on an integrated information of a channel/program identifier information and the data contents in connection with one another, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID.”

Applicants respectfully submit that the combination of elements as set forth in amended independent claims 1, 7, 12, 20 and 27 are not disclosed or suggested by references relied on by the Examiner.

The present invention relates to a data contents processing method and apparatus which are capable of displaying A/V stream corresponding to the previously viewed contents by

connecting the A/V stream with the data contents. The data contents processing method and apparatus of the claimed invention are capable of rapidly and exactly displaying A/V stream corresponding to the previously viewed contents by forming an integrated information of a channel/program identifier information and data contents in connection with each other, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID. These claimed features are absent from the utilized references as explained hereinbelow.

In particular, Mao discloses simulcast Web pages which are related to the contents of the broadcast video programs contained in the digital video channels. Mao also discloses providing the location of the desired HTML page in the MPEG-2 data packet within the MPEG-2 data stream corresponding to the designated URL web page, and a location within the MPEG-2 data stream disclosed by Mao is defined by a packet identifier (PID), a table identifier (tableID) and table identifier extension (tableIDext) (see page 2, paragraphs 0019-0026).

However, Mao fails to teach "forming an integrated information of a channel/program identifier information and data contents in connection with each other, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID" as recited in claims 1, 7 and 12, "displaying A/V signals and corresponding data contents of the selected channel based on an integrated information of a channel/program identifier information and the data contents in connection with one another, wherein the channel/program identifier information is an intrinsic identifier related to the television program,

and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID” as recited in claim 20, and “a display unit for displaying A/V signals and corresponding data contents of the selected channel based on an integrated information of a channel/program identifier information and the data contents in connection with one another, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID” as recited in claim 27. Instead, Mao simply discloses providing the location of the desired HTML page in the MPEG-2 data packet within the MPEG-2 data stream corresponding to the designated URL web page.

Kaplan also fails to cure the deficiencies of Mao. In particular, Kaplan discloses an Internet site for transmitting the channel information to the television receiver which would automatically change to that channel upon exiting the Internet (See col. 6, lines 22-53). However, Kaplan also fails to teach “forming an integrated information of a channel/program identifier information and data contents in connection with each other, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID” as recited in claims 1, 7 and 12, “displaying A/V signals and corresponding data contents of the selected channel based on an integrated information of a channel/program identifier information and the data contents in connection with one another, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID” as recited in claim 20, and “a display unit for displaying A/V signals and

corresponding data contents of the selected channel based on an integrated information of a channel/program identifier information and the data contents in connection with one another, wherein the channel/program identifier information is an intrinsic identifier related to the television program, and the intrinsic identifier includes a television channel ID, television program ID, and data contents ID" as recited in claim 27. Instead, Kaplan's television receiver automatically switches to the channels suggested by the Internet site (see col. 6, lines 42-44).

With regard to the Examiner's reliance on Shoff, this reference simply discloses displaying only the video data stream being received through the tuner 98 when there is no supplemental content (see col. 9 lines 1-7). Shoff also fails to disclose the above combinations of elements as set forth in amended independent claims 1, 7, 12, 20 and 27. Accordingly, this reference fails to cure the deficiencies of Mao.

Accordingly, none of the utilized references individually or in combination teach or suggest the limitations of amended independent claims 1, 7, 12, 20 and 27. Therefore, Applicants respectfully submit that amended independent claims 1, 7, 12, 20 and 27 and their dependent claims (at least due to their dependency) clearly define over the teachings of the utilized references. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. § 103 are respectfully requested.

CONCLUSION

All the stated grounds of rejection have been properly traversed and/or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently pending rejections and that they be withdrawn.

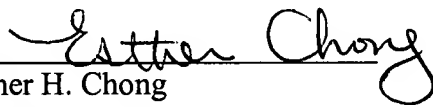
It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact the undersigned at (703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Dated: May 25, 2007

Respectfully submitted,

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